

BACKSTOP[®] Diaphragm Expansion Tanks

PRE-PRESSURIZED WELL TANK SUBMITTAL

Lit.# BSAWSUB-810

TYPE: PRE-PRESSURIZED EXPANSION WELL TANKS FOR WATER SYSTEMS

MODELS: AW-101; AW-102; AW-103-S; AW-104-S; AW-105;-S & AW-106-S

Job _____	Arrow Rep. _____		
Unit Tag No. _____	Order No. _____	Date _____	
Engineer _____	Submitted By _____	Date _____	
Contractor _____	Approved By _____	Date _____	

MATERIALS:

Shell: Carbon Steel
 System Connection: Stainless Steel
 Coating: Epoxy
 Diaphragm: Heavy Duty Butyl Rubber
 Liner Material: Food Grade Polypropylene
 Factory Pre-set Pressure: 35 PSI

OPERATING LIMITATIONS:

Maximum Design Pressure: 150 PSI (1035 kPa)
 Maximum Design Temperature: 200° F (93° C)



APPLICATION:

BackStop[®] Well Tanks are fixed diaphragm type pre-pressurized tanks that provide optimal control of system pressures for the most efficient operating performance. The water is separated using the heavy duty diaphragm preventing tank corrosion and waterlogging problems.

Model No.	Volume (liter)	Volume (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
AW-100	2	1/2	8-3/4"	5-1/2"	3/4"	2-1/2"
AW-101	8	2	12-1/2"	8"	3/4"	5
AW-102	18	4.5	15"	11"	3/4"	9
AW-103-S	55	14	19-7/8"	15-1/2"	1"	19
AW-104-S	80	20	27"	15-1/2"	1"	27
AW-105-S	128	32	46-1/2"	15-1/2"	1-1/4"	43
AW-106-S	176	44	35-1/2"	22"	1-1/4"	52

S denotes stand models.

BackStop[®] pre-pressurized well tanks are approved for well applications only. Not recommended for use as a water heater thermal expansion device.

SCHEDULE:

Model Number	Tank Volume Gallons	Acceptance Volume Gallons	Tagging Information	Quantity
A-W100	1/2	.11		
A-W101	2	0.45		
A-W102	4.5	0.73		
A-W103-S	14	0.81		
A-W104-S	20	0.57		
A-W105-S	32	0.91		
A-W106-S	44	1.25		

SPECIFICATIONS:

Furnish and install as shown on plans a _____ gallon _____" diameter x _____" (high) pre-charged steel well tank with a fixed butyl diaphragm. The tank shall have a top NPT system connection and a .301" - 32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements.

Each tank shall be BackStop[®] model number _____ or approved equal.